

DUQUESNE LIGHT CO.  
Operations Services  
Engineering Services  
Protection Engineering

Date: November 25, 2008

CIRCUIT: Midland-Cooks Ferry Ckt. 22869  
LOCATION: Route 168; Shippingport (P. #271187)  
CO OPERATION NUMBER: SWR 974  
CO FILE NUMBER:

VHF MODEM DEPLOYMENT

EQUIPMENT: G&W Type VIPER Recloser with SEL-351R Control  
CONTROL CABINET SERIAL NUMBER : 2008269342  
G & W VIPER SERIAL NUMBER : 650-07-0421

SETTINGS:

Group 1 Settings (NOTE : Set Group 2 Settings = Group 1 Settings)

Control Identifier	SWR 974
Circuit Identifier	T22869

CT Ratio	1000
PT Ratio	110

Phase Minimum Trip	400 A
Ground Minimum Trip	200 A
SEF Minimum Trip	OFF

Phase Fast Curve	101
Ground Fast Curve	101

Phase Delay Curve	132
Phase Delay Curve – Time Dial	N/A
Phase Delay Curve – EM Reset	N

Ground Delay Curve	162
Ground Delay Curve – Time Dial	N/A
Ground Delay Curve – EM Reset	N

SEF Time Delay	0
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Phase Fast Curve – Operations	OFF
Ground Fast Curve – Operations	OFF
Phase – Operations to Lockout	4
Ground – Operations to Lockout	4
SEF – Operations to Lockout	OFF

CO OPERATION NUMBER : SWR 974  
 EQUIPMENT : G&W Type VIPER Recloser with SEL-351R Control  
 CONTROL CABINET SERIAL NUMBER : 2008269342  
 G & W VIPER SERIAL NUMBER : 650-07-0421

### SETUP: Communications

#### Data Port 3 Settings

VHF Modem IP Address	10.211.1.1/2100
Protocol	PROTO DNPE
Baud Rate (300-38400)	SPEED 9600
DNP Address (0-65534)	DNPADR 1132
Minutes for Request Interval (0-32767)	TIMERQ 0
Currents Scaling Decimal Places (0-3)	DECPLA 1
Voltages Scaling Decimal Places (0-3)	DECPLV 1
Misc. Data Scaling Decimal Places (0-3)	DECPLM 1
Seconds to Select/Operate Timeout (0-30)	STIMEO 1.0
Datalink Retries (0-15)	DRETRY 0
Seconds to Datalink Timeout (0-5)	DTIMEO 1
Minimum Seconds from DCD to Tx (0-1)	MINDLY 0.1
Maximum Seconds from DCD to Tx (0-1)	MAXDLY 0.1
Settle Time from RTS On to Tx	PREDLY OFF
Settle Time from Tx to RTS OFF (0-30)	PSTDLY 0.05
Enable Unsolicited Reporting	UNSOL Y
Enable Unsolicited Reporting at Power Up	PUNSOL Y
DNP Address to Report to (0-65534)	REPADR 1000
Number of Events to Tx On (1-200)	NUMEVE 1
Seconds Until Oldest Event to Tx On(0-60)	AGEEVE 1.0
Seconds to Event Message Confirm Timeout (1-50)	UTIMEO 20
Class for Analog Event Data (0-3)	CLASSA 2
Class for Binary Event Data (0-3)	CLASSB 2
Class for Counter Event Data (0-3)	CLASSC 2
Amps Reporting Deadband Counts (0-32767)	ANADBA 3300
Volts Reporting Deadband Counts (0-32767)	ANADBv 3300
Misc. Data Deadband Counts (0-32767)	ANADBM 3300

## OUTAGE REQUEST FORM

Items in this Box to be Completed by Requestor

Today's Date: 7/30/10 Requested By: Lee W. Pillar Requestor's Phone # 393-8433

Station: SWR675 SHIPPINGPORT TOWER

Equipment Requested and Work to Be Performed: REQUEST A COMMUNICATIONS OUTAGE TO  
UPGRADE VHF RADIO NETWORK , SWR675 Midland-Cooks Ferry Ckt. 22869

Requested Date: 8/02/10 Cleared by Time: 8:00 Outage Length: 1 ☐ Hours ☒ Days

Mark an 'X' for all that apply

Outage will be: ☒ Continuous ☐ Excluding Weekends ☐ Daily  
Can be returned to service in: ☐ 1 Hr. ☐ 4 Hrs. ☐ 8 Hrs. ☒ When completed

Email to OCFS@Duqlight.com Fax# 412-393-5732

### Steps Taken to Establish Clearance:

- |         |          |
|---------|----------|
| 1 _____ | 2 _____  |
| 3 _____ | 4 _____  |
| 5 _____ | 6 _____  |
| 7 _____ | 8 _____  |
| 9 _____ | 10 _____ |

Customer Affected	Representative	Time Called	Time Approved	Remarks

Remarks:

### PJM Notification and Approvals if needed

PJM Notified Date: \_\_\_\_\_ EDART # \_\_\_\_\_ Denied: \_\_\_\_\_  
Reason for Denial: \_\_\_\_\_  
Final Approval: \_\_\_\_\_ By: \_\_\_\_\_

DLC000085

DUQUESNE LIGHT CO.  
Customer Operations  
Asset Management & Engineering  
Protection Engineering

Date: July 27, 2005

**RADIUS VHF MODEM TEST DEPLOYMENT**

CIRCUIT: Midland-Cooks Ferry Ckt. 22869  
LOCATION: Mill Street near Pine Street; Greene Twp. (P. #326304)  
CO OPERATION NUMBER: SWR 675  
CO FILE NUMBER:

Please make the following recloser settings:

EQUIPMENT: Type VWVE Recloser with SEL-351R Control  
CONTROL CABINET SERIAL NUMBER : 2004007169

SETTINGS:

**Group 1 Settings (NOTE : Set Group 2 Settings = Group 1 Settings)**

Control Identifier	SWR 675
Circuit Identifier	D22869
CT Ratio	1000
PT Ratio	110
Phase Minimum Trip	400 A
Ground Minimum Trip	200 A
SEF Minimum Trip	OFF
Phase Fast Curve	101
Ground Fast Curve	101
Phase Delay Curve	132
Phase Delay Curve – Time Dial	N/A
Phase Delay Curve – EM Reset	N
Ground Delay Curve	162
Ground Delay Curve – Time Dial	N/A
Ground Delay Curve – EM Reset	N
SEF Time Delay	0
Phase Fast Curve – Operations	OFF
Ground Fast Curve – Operations	OFF
Phase – Operations to Lockout	4
Ground – Operations to Lockout	4
SEF – Operations to Lockout	OFF

DLC000086

CO OPERATION NUMBER : SWR 675  
 EQUIPMENT : Type VWVE Recloser with SEL-351R Control  
 CONTROL CABINET SERIAL NUMBER : 2004007169

**SETUP: Communications**

Data Port 3 Settings

Protocol	DNPE
Baud Rate (300-38400)	9600
DNP Address (0-65534)	905
VHF Modem IP Address	166.158.66.62/2100
Minutes for Request Interval (0-32767)	0
Class for Analog Event Data (0-3)	2
Class for Binary Event Data (0-3)	2
Class for Counter Event Data (0-3)	2
Currents Scaling Decimal Places (0-3)	1
Voltages Scaling Decimal Places (0-3)	1
Misc. Data Scaling Decimal Places (0-3)	1
Seconds to Select/Operate Timeout (0-30)	1.0
Datalink Retries (0-15)	0
Seconds to Datalink Timeout (0-5)	1
Minimum Seconds from DCD to Tx (0-1)	0.1
Maximum Seconds from DCD to Tx (0-1)	0.1
Settle Time from RTS On to Tx	OFF
Settle Time from Tx to RTS OFF (0-30)	0.05
Amps Reporting Deadband Counts (0-32767)	100
Volts Reporting Deadband Counts (0-32767)	100
Misc. Data Deadband Counts (0-32767)	100
Enable Unsolicited Reporting	Y
Enable Unsolicited Reporting at Power Up	Y
DNP Address to Report to (0-65534)	1000
Number of Events to Tx On (1-200)	1
Seconds Until Oldest Event to Tx On(0-60)	1.0
Seconds to Event Message Confirm Timeout (1-50)	2

## OUTAGE REQUEST FORM

Items in this Box to be Completed by Requestor

Today's Date: 7/30/10 Requested By: Lee W. Pillar Requestor's Phone # 393-8433

Station: SWN 677 SHIPPINGPORT TOWER

Equipment Requested and Work to Be Performed: REQUEST A COMMUNICATIONS OUTAGE TO UPGRADE VHF RADIO NETWORK , SWN677 Midland-Cooks Ferry T22869

Requested Date: 8/02/10 Cleared by Time: 8:00 Outage Length: 1 ☐ Hours ☒ Days

Mark an 'X' for all that apply

Outage will be: ☒ Continuous ☐ Excluding Weekends ☐ Daily  
Can be returned to service in: ☐ 1 Hr. ☐ 4 Hrs. ☐ 8 Hrs. ☒ When completed

Email to [OCFS@Duqlight.com](mailto:OCFS@Duqlight.com)

Fax# 412-393-5732

### Steps Taken to Establish Clearance:

- |         |          |
|---------|----------|
| 1 _____ | 2 _____  |
| 3 _____ | 4 _____  |
| 5 _____ | 6 _____  |
| 7 _____ | 8 _____  |
| 9 _____ | 10 _____ |

Customer Affected	Representative	Time Called	Time Approved	Remarks

Remarks:

### PJM Notification and Approvals if needed

PJM Notified Date: \_\_\_\_\_ EDART # \_\_\_\_\_ Denied: \_\_\_\_\_  
Reason for Denial: \_\_\_\_\_  
Final Approval: \_\_\_\_\_ By: \_\_\_\_\_

DLC000088

DUQUESNE LIGHT COMPANY  
CUSTOMER OPERATIONS  
Asset Management & Engineering  
Protection Engineering

Date: May 2, 2002

CIRCUIT: Midland-Cooks Ferry T22869  
LOCATION: Pine Street (Route 168) near Mill Street; Hookstown  
CO OPERATION NUMBER: SWN 677  
CO FILE NUMBER: \_\_\_\_\_

Mr. R. W. Popielski:

Please make the following sectionalizer settings:

EQUIPMENT: Type GWC Motor Operated Sectionalizer  
SERIAL NUMBER: GWC \_\_\_\_\_ CONTROL CABINET \_\_\_\_ASC200506005799\_\_\_\_\_

SETTINGS:

Phase

Minimum Actuating Current	-	N/A.
Inrush Restraint Multiplier	-	N/A
Inrush Restraint Time	-	N/A

Ground

Minimum Actuating Current	-	N/A
Inrush Restraint Multiplier	-	N/A
Inrush Restraint Time	-	N/A

Counts to Lockout	-	N/A
Memory Time	-	N/A
Reset Time (No Verification Required)	-	N/A
TD-1 (No Verification of Setting Required)	-	N/A

Remote Terminal Unit\_\_\_\_\_DNP ADD. 904

Location of Controlling Remote	-	SWR 675
Remote Terminal Language	-	L&N Protocol
Control Point #1	-	SWR 675
Control Point #2	-	SWN 677
Control Point #3	-	SWN 679
Remote Terminal Address	-	N/A
CO Channel Number	-	#32

REASONS:

1. All automatic operation features on this device shall be disabled.
2. This device will function as a motor operated switch.

Settings made by: D.Baylor

Date: 11-09-05

Settings verified by: \_\_\_\_\_

Date: \_\_\_\_\_

cc: File

K. E. McGill

RAS  
Protection Engineer

## OUTAGE REQUEST FORM

Items in this Box to be Completed by Requestor

Today's Date: 7/30/10 Requested By: Lee W. Pillar Requestor's Phone # 393-8433

Station: WA 607 SHIPPINGPORT TOWER

Equipment Requested and Work to Be Performed: REQUEST A COMMUNICATIONS OUTAGE TO  
UPGRADE VHF RADIO NETWORK , WA 607 N.O. Tie between Traverse Run D23770 & Midland-Cooks Ferry

Requested Date: 8/02/10 Cleared by Time: 8:00 Outage Length: 1 ☐ Hours ☒ Days

Mark an 'X' for all that apply

Outage will be: ☒ Continuous ☐ Excluding Weekends ☐ Daily  
Can be returned to service in: ☐ 1 Hr. ☐ 4 Hrs. ☐ 8 Hrs. ☒ When completed

Email to OCFS@Duqlight.com Fax# 412-393-5732

### Steps Taken to Establish Clearance:

- |         |          |
|---------|----------|
| 1 _____ | 2 _____  |
| 3 _____ | 4 _____  |
| 5 _____ | 6 _____  |
| 7 _____ | 8 _____  |
| 9 _____ | 10 _____ |

Customer Affected	Representative	Time Called	Time Approved	Remarks

Remarks:

### PJM Notification and Approvals if needed

PJM Notified Date: \_\_\_\_\_ EDART # \_\_\_\_\_ Denied: \_\_\_\_\_  
Reason for Denial: \_\_\_\_\_  
Final Approval: \_\_\_\_\_ By: \_\_\_\_\_

DUQUESNE LIGHT CO.  
 Operations Services  
 Engineering Services  
 Protection Engineering

Date: August 18, 2008

CIRCUIT: N.O. Tie between Traverse Run D23770 & Midland-Cooks Ferry D22869  
 LOCATION: Route 151 off Route 18; Raccoon (P. #125711)  
 CO OPERATION NUMBER: WA 607  
 CO FILE NUMBER:

VHF MODEM DEPLOYMENT

EQUIPMENT: Energyline Model 5801G control box for GWC switch  
 CONTROL CABINET SERIAL NUMBER : 5801-0180-001008

## SETTINGS:

SETUP: Fault Detection

Phase Fault Detection Current Level	280 amps.
Ground Fault Detection Current Level	140 amps.
Phase Fault Duration Time Threshold	50 msec.
Ground Fault Duration Time Threshold	50 msec.
Phase Current Inrush Restraint Time	250 msec.
Ground Current Inrush Restraint Time	400 msec.
Phase Current Inrush Restraint Multiplier	4X
Ground Current Inrush Restraint Multiplier	4X

SETUP: Automatic Operation

Features Enabled	Sectionalizing Only
Memory Time from 1st Recloser Operation to Reset	90 sec.
Successful Reclose Reset Time	N/A
Overcurrent to Volt Loss Association Time (Tenths)	6
Fault Current Required Before First/All Voltage Loss(cs)	All
Number of Recloser Counts to Sectionalizer Trip	1
Number of Shots Required for Lockout	One
Shots to Lockout Time Threshold	20 sec.
Overcurrent Required Before Shots to Lockout Operation	Enabled

SETUP: Communications

Communications RTU Address	1116
Application Layer Confirmations	Enabled
Number of Confirmation Attempts	3
Time Delay Between Attempts	10 sec.
Unsolicited Responses to Master Station	Enabled – V2
Time Delay Between Restart Messages	60 sec.
Master Station RTU Address	1000
Device Restart Message Transmit Delay	10 sec.

## OUTAGE REQUEST FORM

Items in this Box to be Completed by Requestor

Today's Date: 7/30/10 Requested By: Lee W. Pillar Requestor's Phone # 393-8433

Station: SWA588 SHIPPINGPORT TOWER

Equipment Requested and Work to Be Performed: REQUEST A COMMUNICATIONS OUTAGE TO UPGRADE VHF RADIO NETWORK , SWA 588 N.O. Tie between Midland-Cooks Ferry T22869 & Midland-Hookstown T22870

Requested Date: 8/02/10 Cleared by Time: 8:00 Outage Length: 1 ☐ Hours ☒ Days

Mark an 'X' for all that apply

Outage will be: ☒ Continuous ☐ Excluding Weekends ☐ Daily  
Can be returned to service in: ☐ 1 Hr. ☐ 4 Hrs. ☐ 8 Hrs. ☒ When completed

Email to OCPS@Duglight.com Fax# 412-393-5732

### Steps Taken to Establish Clearance:

- |   |       |    |       |
|---|-------|----|-------|
| 1 | _____ | 2  | _____ |
| 3 | _____ | 4  | _____ |
| 5 | _____ | 6  | _____ |
| 7 | _____ | 8  | _____ |
| 9 | _____ | 10 | _____ |

Customer Affected	Representative	Time Called	Time Approved	Remarks

Remarks:

### PJM Notification and Approvals if needed

PJM Notified Date: \_\_\_\_\_ EDART # \_\_\_\_\_ Denied: \_\_\_\_\_  
Reason for Denial: \_\_\_\_\_  
Final Approval: \_\_\_\_\_ By: \_\_\_\_\_

DLC000092

DUQUESNE LIGHT CO.  
Customer Operations  
Work Management  
Protection Engineering

Date: November 10, 2005

CIRCUIT: N.O. Tie between Midland-Cooks Ferry T22869 & Midland-Hookstown T22870  
LOCATION: Georgetown Road near Hookstown SS; Greene Twp.  
CO OPERATION NUMBER: SWA 588  
CO FILE NUMBER:

**RADIUS VHF MODEM TEST DEPLOYMENT**

EQUIPMENT: Energyline Model 5801S control box for SCADAMATE switch  
SCADAMATE SWITCH SERIAL NUMBER :08-20385  
CONTROL CABINET SERIAL NUMBER : ~~ASC200010002402~~ *replaced 3-10 w/ 5801-0041-001081*

SETTINGS:

SETUP: Fault Detection

Phase Fault Detection Current Level	220 amps.
Ground Fault Detection Current Level	160 amps.
Phase Fault Duration Time Threshold	50 msec.
Ground Fault Duration Time Threshold	50 msec.
Phase Current Inrush Restraint Time	250 msec.
Ground Current Inrush Restraint Time	400 msec.
Phase Current Inrush Restraint Multiplier	4X
Ground Current Inrush Restraint Multiplier	4X

SETUP: Automatic Operation

Features Enabled	Sectionalizing Only
Memory Time From 1st Recloser Operation to Reset	90 sec.
Successful Reclose Reset Time	N/A
Overcurrent to Volt Loss Association Time (Tenths)	6
Fault Current Required before First/All Voltage Loss(es)	All
Number of Recloser Counts to Sectionalizer Trip	2
Number of Shots Required for Lockout	One
Shots to Lockout Time Threshold	20 sec
Overcurrent Required Before Shots to Lockout Operation	Enabled

SETUP: Communications

Communications RTU Address	113
Application Layer Confirmations	Enabled
Number of Confirmation Attempts	3
Time Delay Between Attempts	10 sec.
Time Delay Between Restart Messages	60 sec.
Unsolicited Responses to Master Station	Enabled – V2
Master Station RTU Address	1000
Device Restart Message Transmit Delay	10 sec.

# OUTAGE REQUEST FORM

Items in this Box to be Completed by Requestor

Today's Date: 7/30/10 Requested By: Lee W. Pillar Requestor's Phone # 393-8433

Station: WR 875 SHIPPINGPORT TOWER

Equipment Requested and Work to Be Performed: REQUEST A COMMUNICATIONS OUTAGE TO UPGRADE VHF RADIO NETWORK , WR 875 Midland-Cooks Ferry Ckt. D22869

Requested Date: 8/02/10 Cleared by Time: 8:00 Outage Length: 1 ☐ Hours ☒ Days

Mark an 'X' for all that apply

Outage will be: ☒ Continuous ☐ Excluding Weekends ☐ Daily  
Can be returned to service in: ☐ 1 Hr. ☐ 4 Hrs. ☐ 8 Hrs. ☒ When completed

Email to OCFS@Duqlight.com Fax# 412-393-5732

## Steps Taken to Establish Clearance:

- |         |          |
|---------|----------|
| 1 _____ | 2 _____  |
| 3 _____ | 4 _____  |
| 5 _____ | 6 _____  |
| 7 _____ | 8 _____  |
| 9 _____ | 10 _____ |

Customer Affected	Representative	Time Called	Time Approved	Remarks

Remarks:

## PJM Notification and Approvals if needed

PJM Notified Date: \_\_\_\_\_ EDART # \_\_\_\_\_ Denied: \_\_\_\_\_  
Reason for Denial: \_\_\_\_\_  
Final Approval: \_\_\_\_\_ By: \_\_\_\_\_

DUQUESNE LIGHT CO.  
Customer Operations  
Asset Management & Engineering  
Protection Engineering

Date: June 1, 2005

CIRCUIT: Midland-Cooks Ferry Ckt. D22869  
LOCATION: Route 168 just south of Hardins Run Road; Hanover Twp.  
CO OPERATION NUMBER: WR 875  
CO FILE NUMBER:

Please make the following recloser settings:

EQUIPMENT: G&W Type VIPER Recloser with SEL-351R Control  
CONTROL CABINET SERIAL NUMBER : 2005095138

SETTINGS:

Group 1 Settings (NOTE : Set Group 2 Settings = Group 1 Settings)

Control Identifier	WR 875
Circuit Identifier	D22869
CT Ratio	1000
PT Ratio	110
Phase Minimum Trip	320 A
Ground Minimum Trip	160 A
SEF Minimum Trip	OFF
Phase Fast Curve	101
Ground Fast Curve	101
Phase Delay Curve	132
Phase Delay Curve – Time Dial	N/A
Phase Delay Curve – EM Reset	N
Ground Delay Curve	162
Ground Delay Curve – Time Dial	N/A
Ground Delay Curve – EM Reset	N
SEF Time Delay	0
Phase Fast Curve – Operations	OFF
Ground Fast Curve – Operations	OFF
Phase – Operations to Lockout	4
Ground – Operations to Lockout	4
SEF – Operations to Lockout	OFF

CO OPERATION NUMBER : WR 875

EQUIPMENT : G&amp;W Type VIPER Recloser with SEL-351R Control

CONTROL CABINET SERIAL NUMBER : 2005095138

**SETUP: Communications**

RS 232 Data Port Address (Port 2)	1
Data Port 3 Settings	
Protocol	DNPE
Baud Rate (300-38400)	9600
DNP Address (0-65534)	888
Raven CDMA Modem IP Address	166.139.36.145/2100
Minutes for Request Interval (0-32767)	0
Class for Analog Event Data (0-3)	2
Class for Binary Event Data (0-3)	2
Class for Counter Event Data (0-3)	2
Currents Scaling Decimal Places (0-3)	1
Voltages Scaling Decimal Places (0-3)	1
Misc. Data Scaling Decimal Places (0-3)	1
Seconds to Select/Operate Timeout (0-30)	1.0
Datalink Retries (0-15)	0
Seconds to Datalink Timeout (0-5)	1
Minimum Seconds from DCD to Tx (0-1)	0.1
Maximum Seconds from DCD to Tx (0-1)	0.1
Settle Time from RTS On to Tx	OFF
Settle Time from Tx to RTS OFF (0-30)	0.05
Amps Reporting Deadband Counts (0-32767)	3300
Volts Reporting Deadband Counts (0-32767)	3300
Misc. Data Deadband Counts (0-32767)	3300
Enable Unsolicited Reporting	Y
Enable Unsolicited Reporting at Power Up	Y
DNP Address to Report to (0-65534)	1000
Number of Events to Tx On (1-200)	1
Seconds Until Oldest Event to Tx On(0-60)	1.0
Seconds to Event Message Confirm Timeout (1-50)	2

**VHF 220Mhz Project**

**HOPEWELL TOWER**

**SCOPE OF WORK**

4-6-10 ✓  
RELEASE  
#315

Contractor is to climb tower using and adhering to all safety standards while work is preformed!

- Climb tower and change existing VHF antenna with 220Mhz spectrum Antenna.
- Sweep antenna and make sure it's within operating frequency.
- Supply Duquesne Light with a hard copy of Sweep.
- Duquesne Light Telecom Techs are to assist Contractor.
- Duquesne Light Telecom Techs are also to sweep Antenna and Supply the engineer with a hard copy of their sweep.
- Duquesne Light Telecom Techs are to install new 220Mhz Radio, making all power, antenna and fiber connections.
- Duquesne Light Telecom Techs are to bring old VHF base radio to Woods Run.

**Lee W. Pillar**

**Communications Engineer/ supervisor**



Sargent  
Electric  
Company

*We Prize Safety.*

2801 Liberty Avenue  
Pittsburgh, PA 15222  
(412) 391-0588

Thomas M. Novosel  
412-394-7637 Direct Dial

February 25, 2010

Via Email: (LPillar@Duqlight.Com)

Mr. Lee Pillar  
Duquesne Light Company  
2101 Beaver Ave.  
Pittsburgh, Pa. 15233

Subject: Hopewell Substation

Dear Lee:

Per your request to perform the work at the above referenced site we are pleased to submit a price of \$ 3,875.00

If you have any questions, please call me at 412-394-7637.

Regards,

Thomas M. Novosel  
Wireless Program Manager

TMN: 02/25/10

DLC000098

**Duquesne Light**

Our Energy...Your Power™

PO Date

PO No.

Rev.

Page

28-FEB-10 4296-315

0 2 of 2

**BLANKET RELEASE**

SARGENT ELECTRIC CO.

Line	Item Number / Promised Description	Date	Qty	UOM	Unit Price	Extended Price
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Equipment Allowance Rates as per Vendor's proposal.

This Purchase Agreement shall be solely governed by the attached DLCo General Terms and Conditions Construction Services. All pre-printed terms and conditions contained on the reverse side of this Purchase Order shall not apply. Contractor's acknowledgment, commencement of performance, or any other conduct by Contractor indicating that this Purchase Agreement is in effect, shall constitute acceptance, by Contractor, of the above referenced terms and conditions, without exception. All additional or different terms provided by Contractor at anytime, including, but not limited to Contractor's proposal, acknowledgment, invoice or shipping papers is expressly rejected and shall not apply, without prior agreement and specifically incorporated by Company into this Purchase Agreement.

ANY PRODUCTS OR SERVICES PROVIDED UNDER ANY RESULTING PURCHASE AGREEMENT MAY BE SUBJECT TO SPECIFIC REQUIREMENTS RELATING TO THE YEAR 2000. PLEASE REFER TO THE ENCLOSED SUPPLEMENTAL TERMS AND CONDITIONS AND/OR THE ENCLOSED SPECIFICATION FOR ADDITIONAL DETAILS REGARDING THEIR REQUIREMENTS.

o SHIP TO: 06-APR-10

3,875.0000

Address at top of page

Lee Pillar, N2-DOC, x8433

Sargent Electric Co. to perform work at Hopewell SS as scoped by Lee Pillar and as quoted to Lee Pillar, February 25, 2010.

\$3,875.00

549.59.3971000.S.2118

Total:

3,875.00

DLC000099

**Duquesne Light**

Our Energy...Your Power™

**BLANKET RELEASE**

Duquesne Light Company  
 Material Services / Purchasing NM-MS  
 2515 Preble Avenue  
 Pittsburgh, PA 15233-1009

Test Purchase Order

**Supplier Address:**

SARGENT ELECTRIC CO.  
 2801 LIBERTY AVENUE  
 PITTSBURGH, PA 15222-4794

PO Date

28-FEB-10

PO No.

404296-315

Rev.

0

Page

1 of 2

**Ship To:**

See Below

**Send Invoices in Duplicate to:**

Duquesne Light Company  
 Accounts Payable Dept. 7-6  
 411 7th Avenue, PO Box 1920  
 Pittsburgh, PA 15230-1920

**Payment Terms**

NET 30

**Carrier****FOB**

Destination/FA

**Buyer GARLICKI, PAUL R**

Phone 4123938428

Fax

**Effective From:****To:**

Line	Item Number / Promised Description	Date	Qty	UOM	Unit Price	Extended Price
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Acknowledgment -  
 1

Perform blanket Electrical Construction services as follows:

Furnish supervision, labor, tools, material and equipment to perform work including, but not limited to, erection of towers and poles for transmission/distribution lines, installation of static wires and associated equipment during the period January 24, 2000 through June 30, 2001 as requested by Richard J. Sikora, Manager of Major Projects.

Firm Compensation Rates in conjunction with Article I, of Exhibit B of Electrical Construction Specifications issued under RFQ 201591 are as follows:

Overhead @ 6.0% of Direct Straight Time Job Labor  
 Profit @ 7.0% of Direct Straight Time Job Labor  
 Small tools, etc @ 0.5% of Direct Straight Time Job Labor

Total of above 13.5 % of Direct Straight Time Job Labor  
 Taxes & Insurance @ 24.0% of Direct Straight Time Line Worker  
 Total Labor Burden @ 37.5%  
 Handling of Mat'l & Equipment @ 5.0%  
 Handling of Subcontracting @ 5.0%

**Total:**

Continued

DLC000100

## OUTAGE REQUEST FORM

Items in this Box to be Completed by Requestor

Today's Date: 6/22/10 Requested By: Lee W. Pillar Requestor's Phone # 393-8433

Station: WR 716 HOPEWELL TOWER

Equipment Requested and Work to Be Performed: REQUEST A COMMUNICATIONS OUTAGE TO UPGRADE VHF RADIO NETWORK, WR 716 D23662

Requested Date: 6/23/10 Cleared by Time: 8:00 Outage Length: 1 ☐ Hours ☒ Days

### Mark an 'X' for all that apply

Outage will be: ☒ Continuous ☐ Excluding Weekends ☐ Daily  
Can be returned to service in: ☐ 1 Hr. ☐ 4 Hrs. ☐ 8 Hrs. ☒ When completed

Email to [OCFS@Dunlight.com](mailto:OCFS@Dunlight.com)

Fax# 412-393-5732

### Steps Taken to Establish Clearance:

- |         |          |
|---------|----------|
| 1 _____ | 2 _____  |
| 3 _____ | 4 _____  |
| 5 _____ | 6 _____  |
| 7 _____ | 8 _____  |
| 9 _____ | 10 _____ |

Customer Affected	Representative	Time Called	Time Approved	Remarks

Remarks:

### PJM Notification and Approvals if needed

PJM Notified Date: \_\_\_\_\_ EDART # \_\_\_\_\_ Denied: \_\_\_\_\_  
Reason for Denial: \_\_\_\_\_  
Final Approval: \_\_\_\_\_ By: \_\_\_\_\_

## OUTAGE REQUEST FORM

Items in this Box to be Completed by Requestor

Today's Date: 6/22/10 Requested By: Lee W. Pillar Requestor's Phone # 393-8433

Station: SWA558 HOPEWELL TOWER

Equipment Requested and Work to Be Performed: REQUEST A COMMUNICATIONS OUTAGE TO UPGRADE VHF RADIO NETWORK, SWA558 N.O. TIE BETWEEN D23662 & 22832

Requested Date: 6/23/10 Cleared by Time: 8:00 Outage Length: 1 ☐ Hours ☒ Days

Mark an 'X' for all that apply

Outage will be: ☒ Continuous ☐ Excluding Weekends ☐ Daily  
Can be returned to service in: ☐ 1 Hr. ☐ 4 Hrs. ☐ 8 Hrs. ☒ When completed

Email to [OCFS@Dunlight.com](mailto:OCFS@Dunlight.com)

Fax# 412-393-5732

### Steps Taken to Establish Clearance:

- |   |       |    |       |
|---|-------|----|-------|
| 1 | _____ | 2  | _____ |
| 3 | _____ | 4  | _____ |
| 5 | _____ | 6  | _____ |
| 7 | _____ | 8  | _____ |
| 9 | _____ | 10 | _____ |

Customer Affected	Representative	Time Called	Time Approved	Remarks

Remarks:

### PJM Notification and Approvals if needed

PJM Notified Date: \_\_\_\_\_ EDART # \_\_\_\_\_ Denied: \_\_\_\_\_  
Reason for Denial: \_\_\_\_\_  
Final Approval: \_\_\_\_\_ By: \_\_\_\_\_

# OUTAGE REQUEST FORM

Items in this Box to be Completed by Requestor

Today's Date: 6/22/10 Requested By: Lee W. Pillar Requestor's Phone # 393-8433

Station: WA959 HOPEWELL TOWER

Equipment Requested and Work to Be Performed: REQUEST A COMMUNICATIONS OUTAGE TO UPGRADE VHF RADIO NETWORK , WA959 CIRCUIT D23622

Requested Date: 6/23/10 Cleared by Time: 8:00 Outage Length: 1 ☐ Hours ☒ Days

Mark an 'X' for all that apply

Outage will be: ☒ Continuous ☐ Excluding Weekends ☐ Daily  
Can be returned to service in: ☐ 1 Hr. ☐ 4 Hrs. ☐ 8 Hrs. ☒ When completed

Email to OCFSC.Duplicate.com

Fax# 412-393-5732

## Steps Taken to Establish Clearance:

- |   |       |    |       |
|---|-------|----|-------|
| 1 | _____ | 2  | _____ |
| 3 | _____ | 4  | _____ |
| 5 | _____ | 6  | _____ |
| 7 | _____ | 8  | _____ |
| 9 | _____ | 10 | _____ |

Customer Affected	Representative	Time Called	Time Approved	Remarks

Remarks:

## PJM Notification and Approvals if needed

PJM Notified Date: \_\_\_\_\_ EDART # \_\_\_\_\_ Denied: \_\_\_\_\_  
Reason for Denial: \_\_\_\_\_  
Final Approval: \_\_\_\_\_ By: \_\_\_\_\_

# OUTAGE REQUEST FORM

Items in this Box to be Completed by Requestor

Today's Date: 6/22/10 Requested By: Lee W. Pillar Requestor's Phone # 393-8433

Station: WA532 HOPEWELL TOWER

Equipment Requested and Work to Be Performed: REQUEST A COMMUNICATIONS OUTAGE TO UPGRADE VHF RADIO NETWORK, WA532 N.O. TIE BETWEEN D23645 & D23646

Requested Date: 6/23/10 Cleared by Time: 8:00 Outage Length: 1 ☐ Hours ☒ Days

Mark an 'X' for all that apply

Outage will be: ☒ Continuous ☐ Excluding Weekends ☐ Daily  
Can be returned to service in: ☐ 1 Hr. ☐ 4 Hrs. ☐ 8 Hrs. ☒ When completed

Email to OCES.Duall@nasa.gov Fax# 412-393-5732

## Steps Taken to Establish Clearance:

- |         |          |
|---------|----------|
| 1 _____ | 2 _____  |
| 3 _____ | 4 _____  |
| 5 _____ | 6 _____  |
| 7 _____ | 8 _____  |
| 9 _____ | 10 _____ |

Customer Affected	Representative	Time Called	Time Approved	Remarks

Remarks:

## PJM Notification and Approvals if needed

PJM Notified Date: \_\_\_\_\_ EDART # \_\_\_\_\_ Denied: \_\_\_\_\_  
Reason for Denial: \_\_\_\_\_  
Final Approval: \_\_\_\_\_ By: \_\_\_\_\_

## OUTAGE REQUEST FORM

Items in this Box to be Completed by Requestor

Today's Date: 6/22/10 Requested By: Lee W. Pillar Requestor's Phone # 393-8433

Station: WA989 HOPEWELL TOWER

Equipment Requested and Work to Be Performed: REQUEST A COMMUNICATIONS OUTAGE TO UPGRADE VHF RADIO NETWORK, WA989 CIRCUIT D23621

Requested Date: 6/23/10 Cleared by Time: 8:00 Outage Length: 1 ☐ Hours ☒ Days

Mark an 'X' for all that apply

Outage will be: ☒ Continuous ☐ Excluding Weekends ☐ Daily  
Can be returned to service in: ☐ 1 Hr. ☐ 4 Hrs. ☐ 8 Hrs. ☒ When completed

Email to WOPR@Dunell.com Fax# 412-393-5732

### Steps Taken to Establish Clearance:

- |   |       |    |       |
|---|-------|----|-------|
| 1 | _____ | 2  | _____ |
| 3 | _____ | 4  | _____ |
| 5 | _____ | 6  | _____ |
| 7 | _____ | 8  | _____ |
| 9 | _____ | 10 | _____ |

Customer Affected	Representative	Time Called	Time Approved	Remarks

Remarks:

### PJM Notification and Approvals if needed

PJM Notified Date: \_\_\_\_\_ EDART # \_\_\_\_\_ Denied: \_\_\_\_\_  
Reason for Denial: \_\_\_\_\_  
Final Approval: \_\_\_\_\_ By: \_\_\_\_\_

219.2125 MHZ

Hopewell Tower

VIPER RADIO REMOTE IP NETWORK

Base IP 10.211.1.11/22 RF IP 10.211.70.1/24

Controller 10.211.1. 1

255.255.252.0

255.255.255.0

255.255.252.0

Base Default G/W 10.211.0.1

D3:46:1

Either IP	NET MASK	RadioMesh	NET MASK	RF MAC	Default G/W	Device	Number
10.211.71.1/29	255.255.255.248	10.211.70.2/24	255.255.255.0	D3:46:2	10.211.70.1 Longvue Ave & Maratta RD.,Hopewell	SWA558	558
10.211.71.9/29	255.255.255.248	10.211.70.3/24	255.255.255.0	D3:46:3	10.211.70.1 BeaverValley Mall(north end), Center TWP	WA989	989
10.211.71.17/29	255.255.255.248	10.211.70.4/24	255.255.255.0	D3:46:4	10.211.70.1 Chapel Rd. near Imperial Drive, Hopewell TWP.	SWA954	954
10.211.71.25/29	255.255.255.248	10.211.70.5/24	255.255.255.0	D3:46:5	10.211.70.1 RT.989 north of Freedom-Crider RD.,New Sewickley TWP	WA532	532
10.211.71.33/29	255.255.255.248	10.211.70.6/24	255.255.255.0	D3:46:6	10.211.70.1 Maratta Rd. near Upland, Aliquippa	WA959	959
10.211.71.41/29	255.255.255.248	10.211.70.7/24	255.255.255.0	D3:46:7	10.211.70.1 Maratta Rd. south of Wade, Aliquippa	WR716	716
10.211.71.49/29	255.255.255.248	10.211.70.8/24	255.255.255.0	D3:46:8	10.211.70.1		
10.211.71.57/29	255.255.255.248	10.211.70.9/24	255.255.255.0	D3:46:9	10.211.70.1		

DLC000106

# VHF 220Mhz Project

## WILMERDING TOWER

### SCOPE OF WORK

Contractor is to climb tower using and adhering to all safety standards while work is preformed!

- Install and secure 1 5/8 helliflex cable going from substation up tower.
- Install N type connectors on both ends of cable.
- Install and secure 220Mhz antenna.
- Install and secure jumper from antenna to helliflex.
- Sweep antenna and make sure it's within operating frequency.
- Supply Duquesne Light with a hard copy of Sweep.
- Duquesne Light Telecom Techs are to assist Contractor.
- Duquesne Light Telecom Techs are also to sweep Antenna and  
Supply the engineer with a hard copy of their sweep.
- Duquesne Light Telecom Techs are to install new 220Mhz Radio,  
making all power, antenna and fiber connections.
- Duquesne Light Telecom Techs are to bring old VHF base radio to  
Woods Run.

Lee W. Pillar

Communications Engineer/ supervisor